WHAT IS CLAIMED IS:

1. A system for copepod culture for producing feed for larviculture comprising:

a first bioreactor containing microalgae for feeding copepods;

a nauplius production tank comprising mature copepods;

transfer means for transferring said microalgae to said nauplius production tank under predetermined conditions;

a broodstock recruitment tank;

means for harvesting nauplii from said nauplius production tank and transferring harvested nauplii to said broodstock recruitment tank;

means for transferring mature copepods from said broodstock recruitment tank to said nauplius production tank;

a fish larvae rearing tank comprising fish larvae; and

means for harvesting copepod fish larvae feed from said nauplius production tank and transferring said copepod fish larvae feed to said fish larvae rearing tank.

2. A system according to Claim 1, wherein said nauplii are at least in part *Parvocalanus* sp.

3. A system according to Claim 1 contained in a biosecure environment.

4. A system according to Claim 1, wherein said microalgae comprise at least one of Isochrysis sp. and *Chaetoceros* sp.

5. A system according to Claim 1, wherein said nauplii are a *Parvocalanus* sp found in Kaneohe Bay, Oahu, HI.

6. A system according to Claim 5, wherein said *Parvocalanus* sp are raised in vessels between about 200 and 100,000L capacity to produce at least about 5 naupli/ml.

7. A system according to Claim 5, wherein said nauplius production tank comprises microalgae at a cell density in the range of about 100,000-500,000/ml and the density of said *Parvocalanus* sp nauplii is in the range of about 5-20/ml.

8. A system according to Claim 1, wherein said fish larvae are the larvae of red, snapper, flame angelfish or bluefin trevally.

9. A 2-phase method for rearing fish larvae comprising:

growing *Parvocalanus* sp under controlled and biosecure environmental conditions in vessels between 200 and 100,000L capacity, at a temperature in the range of about 20 - 30°C for production of at least about 5 nauplii/ml.

10. A method according to Claim 9, wherein microalgae are fed to said *Parvocalanus* sp. at a cell density in the range of about 200,000-400,000/ml and the density of the *Parvocalanus* sp is in the range of about 5-20/ml.

11. A method according to Claim 10, wherein said feeding is at a temperature in the range of about 20 - 30°C, salinity between 15 and 35 ppt, pH between 7.0 and 9.0, dissolved oxygen between 5.0 and 6.5 ppm, and water replacement is in the range of about 20 - 30% daily.

12. A method according to Claim 11, wherein said fish larvae comprise fish larvae in the range of 18 to 40 days of age.

13. A 1-phase method for rearing fish larvae comprising:

combining in a single tank of at least about 200L under a controlled and biosecure environment under the following conditions: microalgae at a cell density in the range of about 10^5 to 10^6/ml, *Parvocalanus* sp nauplii at a density of at least about 0.5/ml, fish larvae at at least about $10L^{-1}$ and at a temperature in the range of about 20 - 30°C;

maintaining said conditions with water replacement in the range of about 20-30% daily; and

harvesting matured fish larvae of at least about 18 days.

14. A method according to Claim 13, wherein said nauplii are a *Parvocalanus* sp found in Kaneohe Bay, Oahu, HI.

15. A method according to Claim 13, wherein said microalgae comprise at least one of *Isochrysis* sp. and *Chaetoceros* sp.

16. A method according to Claim 13, wherein said fish larvae are the larvae of red, snapper, flame angelfish or bluefin trevally.

17. A database for encoding control of the method according to Claim 1.

18. An electronic control system comprising said database according to Claim 1.